Colaborative Dura #1 Sonutsons

ECE 345/MG 380
Fael 2020
M. Oish:

use the walting room
$$\frac{1}{2}$$
 ure to provide privacy.

4. I'll stick around for an informal chat for a few minute. In case anyone halany questions. If you the superior of sections of the superior o

in Marter I. of you haven't age: Iv, please complete the START HERE module, and part of Module I, as described in the schedule on the Course Home page. This wrap will start to cover some of the material

O. Ougaes for & Synchronses for B+C. 4 Logistics [o] D=O

	7. Ple in	ase log	g in to NATeams. urse Learn page. (If you need help finding the link, it's also on the left-hand mer Confirm that you can see the this assignment description und
		5	s2+ngl/	=> (a) is correct.
3.	(6)	is	correct.	

Motivation for doing work offline

- Shar Lectur Notes 1 again Thumbs up: HDimport is it, to you, to develop skills in
- 2. Let's take a look of these 8 cleracteristics of new hires, put together by the National Asso-
- Scrab hare the .pdf . Send the .pdf on MS Teams.

 Take a moment and think to yourself: Which four the following items are the most impor-
- tant characteristics in recent college graduates for hiring companies?. (This does not have to
- person in the group will have a different role: I'

 (a) Person with highest trust in autonomy: Set up GoBoard or Google Slides for team, In a moment, I will put you in breakout rooms, in groups of 3, to discuss your answers. Each
- everyone bee an opportunity to speak. (b) Person 2, t a's t aust in autonomes tee was from on time and ensure

GoBoard, with your team member's names. Coloren wie 'saspirust in autonomy: Repor Lt the team's list on Dr. Oishi's

Take a close look at these roles. I'll post them now in MS Teams in case you need a reminder

- LOO PRS after you return back to the main Zoom room. (Open breakout 7. I will,
- 8. Go to GoBoard. Take a minute to let everyone look.

1.

4. Because Shepron-ser entry of Bis in the Third row, we know the ingua has a direct effect on ZLt). The A matrix shows that O(t) is affected Ly O(+) (via Dre (1,2) demant being non-zero), ulich is in turn affected by Alt) + 7/4) (via the (2,1) + (2,3) demote being non-zero). Since we lanon 7/4) is injacted by the injur, B(4) is indirectly affected by She input. i. (a) is correct.

JEltnam) = Jolp

Z(thap) = I /3/,

motion of the robot that result and the flywheels are slowly spun up, then abrutly braked to a Leave the inverse Laplace try blace tables to show that $\theta(s) = G_p(s)\tau(s)$, with $\tau(s) = \frac{1}{(s)} = \frac{1}{(s)} \frac$

Other points to consider (not necessary to hand in):

We see from Fig. 2 Drag higher values of & Elthop) E not? Hint: Consider the exponential elements carefully.

S. Consider sign described by a remove as stepped. As the flywheels are spun up with constint applied frague, is it inevitable that (5) will eventually be met? Why or why

.. We wan increased flywheel inetic J.

applied torque that is a step input, results in for a surface angle of $\beta = 0$ (e.g., when the robot is on a flat and level surface). Solving (2) for an